

Sub A

ABSTRACT

Hypoxic room system is provided for hypoxic training or therapy. The equipment of the system simulates oxygen-depleted mountain air and atmospheric pressure on different altitudes. The system employs an oxygen content-reducing device (hypoxicator) which supplies oxygen-depleted air inside a hypoxic training room communicating with the device and having ventilating openings for equalizing atmospheric pressure inside the hypoxic room. The system may be applied to interior space inside any structure.

Three different types of hypoxicator are presented in this invention employing a membrane air-separation principle and a molecular sieve pressure-swing adsorption process.